

ABSTRACT

Apparatus and methods for mixing fluids are disclosed. An apparatus comprises a housing or channel having an interior with capillary dimensions and a pressure  
5 activated mechanism in fluid communication with the interior. The pressure activated mechanism is activatable to cause motion of fluid in the interior of the housing thereby mixing the fluid in the interior. An apparatus may comprise an activating mechanism for activating the pressure activated mechanism. Typically, at least a portion of the interior of the housing comprises a linear array of features for conducting chemical reactions.  
10 Optionally, an apparatus comprises a fluid dispensing device.